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Message Text

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ACTION OES-06

INFO OCT-01 IO-13 ISO-00 ACDA-10 CIAE-00 INR-07 L-03

NSAE-00 NSC-05 EB-07 NRC-07 FEAE-00 DODE-00 SS-15

EUR-12 EA-09 /095 W
---------- 018949
P 161504Z SEP 76
FM USMISSION IAEA VIENNA
TO SECSTATE WASHDC PRIORITY 8125
INFO USERDA HQ WASHDC PRIORITY
USERDA HQ GERMANTOWN PRIORITY

UNCLAS SECTION 1 OF 2 IAEA VIENNA 7771

DEPT PASS IO/SCT, ACDA AND NRC

ERDA FOR DSS (WM. BARTELS)

E.O. 11652: N/A
TAGS: IAEA, PARM, TECH
SUBJECT: U.S. SUPPORT PROGRAM FOR IAEA SAFEGUARDS; AREA 1, DATA PROCESSING

REF: (A) IAEA VIENNA 6074, (B) STATE 210273, (C) AUTT 12 DRAFT PLAN FOR ASSISTANCE TO IAEA SAFEGUARDS

1. MISOFF HAS DISCUSSED WITH IAEA STAFF DATA PROCESSING PART OF SUPPORT PROGRAM AS PRESENTED IN PARA 4(I) REFTEL A AND AREA I OF REF C AND HAS FOLLOWING RECOMMENDATIONS.

2. SECTION A ON PAGE 5 OF REF C SHOULD READ AS FOLLOWS:

YEAR 1 YEAR 2

"A. DATA BASE MANAGEMENT SYSTEM 20 120
THERE IS A PRESENT NEED FOR A COMMERCIALLY AVAILABLE
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DATA BASE MANAGEMENT SYSTEM. IAEA STAFF AND CONSUL-

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TANTS WILL TEST CANDIDATE SYSTEMS AND SELECT THE MOST PROMISING. SYSTEMS UNDER PRESENT CONSIDERATION INCLUDE ADABAS AND SYSTEM 2000. TESTING, EVALUATION AND SELECTION WILL BE COMPLETED IN OCTOBER, WITH LATE 1976 OR EARLY 1977 PROCUREMENT."

3. MISSION COMMENT: REGARDING SECTION A, FINAL DECISION ON WHICH SYSTEM TO SELECT WILL PROBABLY BE MADE BY DIRECTOR GENERAL AFTER REVIEWING ADP STAFF RECOMMENDATIONS AND CONSULTING WITH OTHER INTERESTED DIVISION DIRECTORS.

4. SECTION B SHOULD READ AS FOLLOWS:

	YEAR 1	YEAR 2
"B. ASSOCIATED EQUIPMENT	1	6

REMOTE INPUT-OUTPUT TERMINALS WILL GREATLY FACILITATE ADP PROGRAM DEVELOPMENT, PROGRAMMER IMPLEMENTATION OF THE DATA BASE MANAGEMENT SYSTEM, DATA BASE QUERIES BY INSPECTORS AND DATA ENTRY AND ERROR CORRECTION BY INPUT EDITORS. DELIVERY AND INTALLATION OF SUCH TERMINALS TAKES ABOUT SIX TO EIGHT MONTHS FROM THE ORDER DATE. THEY RENT FOR UP TO 500 DOLLARS PER MONTH. ONE SUCH TERMINAL IS NEEDED BY THE DEVELOPMENT SECTION AS SOON AS POSSIBLE. ADDITIONAL UNITS (THREE TO SIX) WILL BE REQUIRED OVER THE 1978-1979 PERIOD."

5. MISSION COMMENT: REGARDING SECTION B, FUNDING FOR "ADDITION TO MEMORY" ITEM IN AUGUST 12 DRAFT, WHICH INCLUDED DISC DRIVES, CHANNELS AND A 56 K CORE, HAS BEEN INCLUDED ALREADY IN AGENCY'S COMPUTER SECTION BUDGET FOR 1977. REGARDING URGENTLY NEEDED TERMINAL, WE HAVE SUGGESTED TO AGENCY THAT THEY DEVELOP NECESSARY SPECIFICATIONS SO THAT ORDER COULD BE PLACED AS SOON AS APPROVALS FROM WASHINGTON ARE OBTAINED.

6. SECTION C SHOULD READ AS FOLLOWS:

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	YEAR 1	YEAR 2
"C. PROGRAMMERS	85	200

PROVIDE TWO SENIOR PROGRAMMERS FOR A PERIOD OF TWO OR THREE YEARS TO HELP IN DEVELOPMENT AND OPERATION OF THE SAFEGUARDS ADP INFORMATION SYSTEM. DURING THE TRANSITION FROM THE EXISTING SYSTEM TO NEW

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SOFTWARE, EQUIPMENT AND APPLICATIONS, A TWO YEAR
(1977, 1978) PERIOD OF ABOVE-NORMAL PROGRAMMING LOAD
WILL REQUIRE THE SERVICES OF ADDITIONAL TWO OR THREE PROFESSIONAL
MAN YEARS OF TEMPORARY PROGRAMMERS."

7. MISSION COMMENTS: REGARDING SECTION C, (A) MESSRS.
WOOTEN AND NARDI, WHO ARE ALREADY IN VIENNA, ARE THE
TWO SENIOR PROGRAMMERS PROVIDED FOR IN THE YEAR ONE
FUNDING. IT IS HOPED THAT THEY MAY BE EXTENDED FOR AN
ADDITONAL ONE OR TWO YEARS.

(B) TRANSITION TO NEW DATA BASE MANAGEMENT SYSTEM
WILL TAKE PLACE IN FIRST HALF OF 1977. TWO NEW
GS-7 (AGENCY) LEVEL PROGRAMMERS ARE LAREADY INCLUDED
IN IAEA'S BUDGET FOR 1977, WILL BE HIRED IN EARLY
1977, AND CAN COVER THE EXTRA LOAD DURING THIS
TRANSITION PERIOD.

(C) TRANSITION TO NEW COMPUTER AND NEW APPLICATIONS
(E.G., PROVIDING ANALYSIS OF INSPECTORS DATA, ETC.)
WILL OCCUR OVER MID-1977 TO LATE 1978 PERIOD AND IS
EXPECTED TO REQUIRE PERHAPS TWO OR THREE MAN YEARS
OF PROGRAMMING HELP AT P-1 TO P-2 LEVEL. THESE
PROGRAMMERS WILL NOT NEED TO HAVE SAFEGUARDS EXPERIE-
ENCE. SOME OF THE WORK MAY LEND ITSELF TO CONTRACT-
ING OUT, E.G., TO THE LOCAL IBM OFFICE.

8. SECTION D SHOULD READ AS FOLLOWS (NO CHANGE
FROM AUGUST 12 DRAFT; INCLUDED HERE FOR COMPLETE-
NESS):

YEAR 1 YEAR 2

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"D. ADDITIONAL COMPUTER 0 200

PROJECTED INCREASES IN USAGE OF THE IAEA COMPUTER FOR
SAFEGUARDS AND OTHER UNRELATED IAEA PROGRAM SHOW
THE CAPACITY OF PRESENT EQUIPMENT BEING EXCEEDED IN
EARLY 1978 (IF NOT LATE 1977), EVEN WITH MAXIMUM
ADDITION OF MEMORY CAPACITY. THE OTHER IAEA

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FM USMISSION IAEA VIENNA
TO SECSTATE WASHDC PRIORITY 8126
INFO USERDA HQ WASHDC PRIORITY
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UNCLAS SECTION 2 OF 2 IAEA VIENNA 7771

PROGRAMS NOW USE MOST OF THE COMPUTER CAPACITY AND
PROJECTIONS INDICATE THEIR FURTHER GROWTH. THE VOLUME
OF SAFEGUARDS ACCOUNTING REPORTS FROM MEMBER STATES
IS NOW DOUBLING ANNUALLY AND USE OF THE COMPUTER FOR
ADDITIONAL SAFEGUARDS FUNCTIONS IS PLANNED FOR THE
FUTURE. THEREFORE, PROVISION IS BEING MADE IN THE
IAEA BUDGET FOR PURCHASE OR LEASE OF AN ADDITIONAL
COMPUTER IN 1978. DELIVERY TIME FOR THIS COMPUTER
IS NOT LESS THAN 12 MONTHS FROM PLACEMENT OF AN
ORDER. TO ASSURE TIMELY DELIVERY, PROPOSED ASSIST-
ANCE WOULD FUND A LEASE CHARGE (PRORATED PART OF
$800,000 PER YEAR) FOR THE LAST QUARTER OF 1977.
THIS IS A CONTINGENCY ITEM IN THAT LESS RAPID THAN
PROJECTED GROWTH WOULD ENABLE IAEA BUDGET TO
MEET ALL NEEDS. IF NOT REQUIRED FOR THIS PRIORITY
CONTINGENCY, THE FUNDS ARE NEEDED IN OTHER AREAS OF THIS PLAN."

9. 9. MISSION COMMENT: REGARDING SECTION D, AGENCY HAS
AN INTER-DEPARTMENTAL GROUP WHICH IS CONSIDERING
AGENCY'S FUTURE COMPUTER NEEDS. ALSO, AGENCY EXPECTS
TO OBTAIN SERVICES OF AN OUTSIDE CONSULTANT IN EARLY
OCTOBER WITH EXPERIENCE IN MAJOR COMPUTER EQUIPMENT
SELECTION TO REVIEW SITUATION. IT IS EXPECTED THAT
DECISION ON FUTURE COMPUTER EQUIPMENT NEEDS WILL BE
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POSSIBLE BY THE END OF THIS YEAR. IT IS NOT CERTAIN
AT THIS TIME WHETHER DECISION WILL BE TO REPLACE

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EXISTING, IAEA OWNED, MACHINE OR TO BY OR RENT
ADDITIONAL MACHINE. POSSIBILITY OF A LARGE INCREASE
IN COMPUTER WORKLOAD IF RPT IF EURATOM, JAPAN AND
U.S. (OR EVEN ANY ONE OF THESE) SAFEGUARDS AGREEMENTS
COME INTO FORCE IN LATE 1977, COMBINED WITH
TWELVE MONTH LEAD TIME NEEDED FOR ORDERING A NEW
MACHINE, WOULD SEEM TO CALL FOR AN ORDER TO BE
PLACED URGENTLY TO COVER THAT POSSIBILITY. HOWEVER,
AGENCY MANAGEMENT (OUTSIDE OF SAFEGUARDS DEPARTMENT)
AT THIS TIME DOES NOT WISH TO MAKE THAT COMMITMENT,
EVEN THOUGH THERE APPARENTLY WOULD BE NO PENALTIES
FOR CANCELLING AN ORDER WITHIN A REASONABLE TIME.
MISSION WILL EXPLORE THIS MATTER FURTHER WITH AGENCY.

10. MISSION NOTES THAT STUDY AND EVALUATION OF IAEA
NEEDS IN ADP AREA IS PROCEEDING IN-HOUSE (WITH
MUCH GOOD ASSISTANCE FROM WOOTEN AND NARDI). IAEA
REQUESTS FOR ASSISTANCE IN THIS AREA WILL BE OF
SOMEWHATE DIFFERENT NATURE FROM AREAS SUCH AS CON-
TAINMENT AND SURVEILLANCE, INSTRUMENTATION, AND
STUDIES, INASMUCH AS MORE OUT-OF-HOUSE DEVELOPMENT
EFFORT IS NEEDED IN THOSE AREAS. THEREFORE MORE
EXTENSIVE AND DIRECT CONTACT BETWEEN IAEA STAFF AND
TECHNICAL SPECIALISTS IN U.S. WILL BE NEEDED
TO IMPLEMENT THE SUPPORT PROGRAM IN THESE LATTER
AREAS.GABBERT

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